

6

Chapter Assessment

Use with Chapter 6.

Forces

Understanding Concepts Part A

Write the letter of the choice that best completes the statement or answers the question.

- _____ 1. According to Newton's _____ law, an object with no net force acting on it remains at rest or in motion with a constant velocity.
 a. first b. second c. third
- _____ 2. Losing speed as you ride your bike uphill demonstrates Newton's _____ law.
 a. first b. second c. third
- _____ 3. If you push against a wall, the wall pushes back against you with _____ force.
 a. no b. less c. equal d. more
- _____ 4. An object is in equilibrium if _____.
 a. it has no weight c. it is accelerating
 b. the net force on it is zero d. only one force is acting on it
- _____ 5. The gravitational force exerted by a large body, such as Earth, is _____.
 a. weight c. acceleration
 b. mass d. inertial mass
- _____ 6. Mass and weight are related by _____.
 a. the force of gravity c. friction
 b. newtons d. inertia
- _____ 7. If the weight of a balloon is 3000 N and the lift force provided by the atmosphere is 3300 N, in which direction is the net force acting?
 a. upward c. toward the east
 b. downward d. toward the north
- _____ 8. When the drag force on an object equals the force of gravity, the object attains _____.
 a. acceleration c. terminal velocity
 b. inertial mass d. maximum mass
- _____ 9. The period of a simple pendulum depends upon _____.
 a. the mass of the bob c. the amplitude of the swing
 b. the length of the pendulum d. the stiffness of the pendulum
- _____ 10. To produce mechanical resonance, the time between applied forces must equal the _____ of the object.
 a. period c. length
 b. frequency d. mass

Physics Principles And Problems Answers Study Guide

Arshad Iqbal



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at 60o degrees c dna denatures at 80o degrees c detergent pulls apart the fats and proteins that make up the membranes releases dna cold alcohol pulls the dna out of the water detergent wheat germ

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